

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of

Chafle et al.

Serial No.: Not Yet Assigned

Group Art Unit: Unknown

Filing Date: Concurrently Herewith

Examiner: Unknown

For: METHODS, APPARATUS AND COMPUTER PROGRAMS FOR MANAGING  
PERFORMANCE AND RESOURCE UTILIZATION WITHIN CLUSTER-BASED  
SYSTEMS

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to applicants' duty of disclosure under 37 CFR §1.56, applicants respectfully bring the following documents, listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Copies of the listed documents are provided herewith for the convenience of the Examiner. This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicants are aware.

It is respectfully requested that the listed references be considered by the Examiner and formally made of record in this application.

Please charge any deficiencies in fees and credit any overpayment of fees to  
Attorney's Deposit Account No. 09-0441.

Respectfully submitted,



Mohammad S. Rahman  
Registration No. 43,029

Date: 10/22/03  
McGinn & Gibb, PLLC  
2568-A Riva Road, Suite 304  
Annapolis, Maryland 21401  
(301) 261-8625  
Customer No. 28211

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Compleat if Known</b>	
				Application Number	
				Filing Date	
				First Named Inventor	Girish Bhimra Chafle
				Group Art Unit	
				Examiner Name	
Sheet	1	of	2	Attorney Docket No	JP920030092US1

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EXAMINERS SIGNATURE		DATE CONSIDERED	
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DATE CONSIDERED	
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Complete if Known</b>	
				Applicant Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket No	JP920030092US1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No	Include name of Author (in CAPITALS), title of the article, title of the item (book, magazine, journal, serial, symposium, magazine, etc.), date, page(s), volume-issue number(s) and publisher.	T
		M.Aron, D.Sanders, P.Druschel, and W.Zwaenepoel, "Scalable content-aware request distribution in cluster-based network servers", <i>Proceedings of 2000 USENIX Annual Technical Conference</i> , June 2000, San Diego, USA.	
		A.Fox, S. D.Gribble, Y.Chawathe, E.A.Brewer and P.Gauthier, "Cluster-Based Scalable Network Services", <i>Proceedings of the Sixteenth ACM Symposium on Operating Systems Principles</i> , October 1997	
		H.Zhu, B.Smith, and T.Yang, "Scheduling optimization for resource-intensive web requests on server clusters", <i>Proceedings of the Eleventh Annual ACM Symposium on Parallel Algorithms and Architectures</i> , June 1999	
		M.Aron, P.Druschel and W.Zwaenepoel, "Efficient Support for P-HTTP in Cluster-Based Web Servers", <i>Proceedings of 1999 USENIX Annual Technical Conference</i> , June 1999	
		E.Casalichio and M.Colajanni, "A Client-Aware Dispatching Algorithm for Web Clusters Providing Multiple Services", <i>Proceedings of the 10th International World Wide Web Conference</i> , May 2001	
		V.S.Pai, M.Aron, G.Banga, M.Svendsen, P.Druschel, W. Zwaenepoel, and E.Nahum, "Locality-Aware Request Distribution in Cluster-Based Network Servers", <i>Proceedings of 8th ACM Conference on Architectural Support for Programming Languages and Operating Systems</i> , October 1998	
		M.Welsh, D.Culler and E.Brewer, "SEDA: An Architecture for Well-Conditioned, Scalable Internet Services", <i>Proceedings of 18th Symposium on Operating Systems Principles(SOSP'01)</i> , October 2001	
		M.Welsh, S.D.Gribble, E.A.Brewer and D.Culler, "A Design Framework for Highly Concurrent Systems", Technical Report UCD/CSD-00-1108, UC Berkeley, April 2000.	
		F. Silla and J. Duato "On the Use of Virtual Channels in Networks of Workstations with Irregular Topology", <i>IEEE Transactions on Parallel and Distributed Systems</i> , Vol. 11, No. 8, August 2000, pages 813-828	
		R. Agrawal, R.J. Bayardo, D. Gruhl and S. Papadimitriou, "Vinci: A Service-Oriented Architecture for Rapid Development of Web Applications," <i>Proceedings of 10<sup>th</sup> International World Wide Web Conference</i> , May 2001.	
		H. Zhu, T. Yang, Q. Zheng, D. Watson, O.H. Ibarra, and T. Smith, "Adaptive Load Sharing for Clustered Digital Library Servers," <i>Proceedings of the Seventh IEEE International Symposium on High Performance Distributed Computing (HPDC-7)</i> , July 1998	
		J. Nieh, C. Vail, and H. Zong, "Virtual-time round-robin: An o(1) proportional share scheduler," <i>Proceedings of the 2001 USENIX Annual Technical Conference</i> , June 2001.	
		D. Petrou, J. W. Milford, and G. A. Gibson, "Implementing lottery scheduling: Matching the specializations in traditional schedulers," <i>Proceedings of the 1999 USENIX Annual Technical Conference</i> , June 1999.	
		L.F. Menditto, J. Skogman and G. Sunday, "Single System Image and Load Balancing for Network Access to a Loosely Completed Complex," <i>IBM Technical Disclosure Bulletin</i> , Vol. 34, No. 9, Feb. 1992.	

EXAMINERS SIGNATURE		DATE CONSIDERED	
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